



#### OPPORTUNITY

Promote health information exchange across Tuscany and provide seamless, secure, and interoperable data access for clinicians, institutions, and patients.

#### INNOVATION

The Tuscany region constructed a secure, high-availability, cloud-based data infrastructure that unifies providers into a single system under Tuscan control.

#### SOLUTION

The infrastructure both provides regional integration of health data into a real-time EHR and supports telemedicine, laboratory, and social services.

#### IMPACT

The initiative has transformed the region's care delivery, increasing productivity, eliminating duplication and poor information, and providing broader context.

## Connecting Healthcare Through a Regional Digital Ecosystem

Serving about 3.8 million citizens, the Tuscany regional healthcare system in Italy wanted to boost data sharing and interoperability across the region. With its partners, it strategically initiated a scalable, standards-based system providing secure, unified access to clinical documents. Eliminating data silos has improved decisions and continuity of care and enabled secure, compliant information flow to the regional Electronic Health Record (EHR) with HL7 CDA2 and FHIR standards. The way is now open to connect with the European Health Data Space (EHDS), integrate telemedicine services and AI, control costs, and improve patient outcomes.

### Shared, Real-Time, Unified Clinical Data for Patients and Clinicians Alike

The Tuscany region designed and implemented an interoperability infrastructure supporting a broader digital health strategy. This dynamic system unifies 43 hospitals, healthcare facilities, and care providers on a secure cloud platform under Tuscan sovereignty. It supports standards-based exchange of clinical documents and diagnostic imaging across participating organizations and with other Italian regions. As the region's interoperability backbone, it supports such initiatives as hospital and regional EHRs, telemedicine services, and socio-health systems. Citizens can now access a single personal health record. Clinicians can make better informed and coordinated decisions with current, real-time data. This initiative strengthens continuity of care, data sovereignty, and equitable access to healthcare.

### Dramatic Simplification, Increased Productivity Plus Health Data Sovereignty and Equity

This innovation's extraordinary impact has placed Tuscany among Italy's leading healthcare systems. Providing a unified patient view, it has slashed exam duplication and eliminated risks from incomplete or outdated information. Clinicians are now more productive, with patient data available directly in



Regione Toscana



“By breaking down data silos, we have empowered our citizens with all their health history and our clinicians with the real-time information they need to make the best decisions for our citizens.”

*Tuscany Regional Health Service, Digital Health and Innovation Unit*

the EHR and enhanced attention to patients. The initiative has transformed experiences for Tuscan citizens by ensuring continuous care across the region. Built on **InterSystems HealthShare Unified Care Record**, regional data interoperability empowers patients and providers alike. This robust digital foundation, hosted on its own cloud data center, elevates clinical decision-making and prepares Tuscany for the future of healthcare.

- **Standards-Based Interoperability**, based on Cross-Enterprise Document Sharing (XDS), enables secure exchange of clinical documents and diagnostic imaging across organizations. Data can flow freely between 43 connected hospitals and clinics within a resilient, high-availability architecture.
- **Regional Electronic Health Record (EHR/FSE2.0)** acts as foundational backbone, supporting a broader EHR initiative with Italy's Ministry of Health. Secure data integrated from multiple sources, including from patient devices, contributes to up-to-date patient views; continuity of care; and better informed decisions.
- **Integration with Regional Digital Health Services** supports interoperability with other regional healthcare services, including telemedicine and socio-healthcare services. This integrated ecosystem helps to better coordinate information across care settings while improving operational efficiency.
- **Unified Laboratory and Social Care Integration** enables interoperability and bridges critical gaps in continuity of care. This approach gives clinicians a more comprehensive, contextual view and enables more holistic, patient-centered care.

## About the Winner: Tuscany Regional Health Service

The [Tuscany Regional Health Service](#), Digital Health and Innovation Unit, coordinates regional public healthcare and digital health strategy. Serving millions of citizens through an extensive network of hospitals and healthcare organizations, the Regional Health Service is driving digital transformation of healthcare by promoting secure access to health data, interoperability through a different local health unit, data sharing between clinicians, and patient-centered innovation across the region.

## About the InterSystems Impact Awards, Selected by an MIT Panel

Each year, select client organizations are recognized at the InterSystems READY conference for projects driving positive change. Nominations are evaluated by independent judges from MIT on three criteria:

- **Makes a significant difference**
- **Breaks new ground**
- **Sets an example**

To learn more about the InterSystems Impact Awards visit

<https://www.intersystems.com/intersystems-impact-awards-2026>

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